

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT INITIATION

Date: 1/21/81

Project Title: Status Monitoring/Bridges Switching System Control Microprocessor

Project No: A-2841

Project Director: Mr. B. O. Barringer

Sponsor: Scientific Atlanta; Norcross, Georgia 30093

Agreement Period: From 1/12/81 Until 7/11/81 (Perf. & Rpts.)

Type Agreement: Standard Industrial Agreement dated 1/16/81

Amount: \$19,810

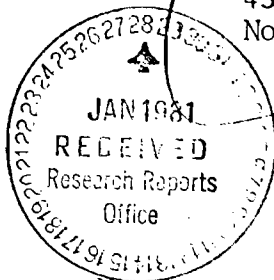
Reports Required: Monthly Letter Progress Reports

Sponsor Contact Person (s):

Technical Matters

Contractual Matters
(thru OCA)

Mr. Larry Lawson
Scientific Atlanta
4311 Communications Drive
Norcross, Georgia 30093



Defense Priority Rating: None

Assigned to: CSTL/CAB XXXX (School/Laboratory)

COPIES TO:

Project Director
Division Chief (EES)
School/Laboratory Director
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Library, Technical Reports Section
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Project File (OCA)
Project Code (GTRI)
Other _____

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT TERMINATION

Date: 8/17/81

Project Title: Status Monitoring/Bridges Switching System Control Microprocessor

Project No: A-2841

Project Director: B. O. Barringer

Sponsor: Scientific Atlanta

Effective Termination Date: 7/11/81

Clearance of Accounting Charges: 7/11/81

Grant/Contract Closeout Actions Remaining:

- ☒ Final Invoice ~~and Closing Documents~~
- ☐ Final Fiscal Report
- ☐ Final Report of Inventions
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☐ Other _____

Assigned to: ECSL / CTAD ~~(Schunk Laboratory)~~

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Georgia Institute of Technology

ENGINEERING EXPERIMENT STATION

ATLANTA, GEORGIA 30332

March 17, 1981

Mr. John Skrobko
Scientific Atlanta
4311 Communications Drive
Norcross, Georgia 30093

Dear John:

Subject: January Progress Report for Project A-2841-000

The following items were accomplished during the period ranging from January 12, 1981 (project initiation) through February 11, 1981:

1. Several discussions with Scientific Atlanta personnel (mainly yourself) were held in an effort to pin down the requirements of the Status Monitoring/Bridger Switching System Control Microprocessor software.
2. A recommended microprocessor hardware configuration was generated based on decisions made in item 1 above.

We intend to pursue the following areas of work during the next month:

1. Obtain and become familiar with the terminal to be used with this project.
2. Familiarization with the RMX-80 real-time software as it applies to the 80/10B.
3. Further assistance with hardware recommendations.
4. Software design and flowcharting.
5. Initial software implementation.

We encourage you to completely finalize your software requirements and to proceed with haste in the hardware acquisition process so as not to impede the progress in future months.

Mr. John Skrobko
March 17, 1981
Page Two

The January budget sheet shows that of the original budgeted \$19,810.00, \$806.37 has been spent. Since this was the first month of the project, all of this amount was expended during this month.

Sincerely yours,

Mr. Bruce O. Barringer
Research Engineer II
Computer Technology and
Applications Division
Electronics and Computer
Systems Laboratory

BOB/jm

Approved by: _____
John T. Scoville
Division Chief



Georgia Institute of Technology

ENGINEERING EXPERIMENT STATION

ATLANTA, GEORGIA 30332

March 23, 1981

Mr. John Skrobko
Scientific Atlanta
4311 Communications Drive
Norcross, Georgia 30093

Dear John:

Subject: February Progress Report for Project A-2841-000

The following items were accomplished during the period ranging from February 12, 1981 through March 11, 1981:

1. Further discussions with Scientific Atlanta personnel (mainly yourself) to firm up the software requirements and to assist with the procurement of the proper hardware.
2. Familiarization with the RMX-80 real-time executive as it applies to the 80/10B.
3. Obtained the IBM terminal and reviewed the appropriate documentation.
4. Obtained and reviewed the RMX-80 and PLM software and documentation.
5. Initial flowcharting of the software.
6. Initial software implementation.

We intend to pursue the following areas of work during the next month:

1. Obtain, configure and checkout the rest of the microprocessor hardware.
2. Proceed with the software implementation.
3. Formulate software test procedures which are independent of the Scientific Atlanta hardware.

Mr. John Skrobko
March 23, 1981
Page Two

4. Integrate the initial software into the configured hardware.
5. Perform initial testing.

Successful performance of these goals will, of course, depend on the prompt delivery (from Scientific Atlanta) of the hardware.

I will be out of town from April 9, 1981 through May 16, 1981. Mr. Richard Winkles is assisting me with this project and will handle your needs in my absence.

The February budget sheet shows that of the original budgeted \$19,810.00, \$2,362.65 has been spent. In February, \$1,556.28 was spent.

Sincerely yours,

Mr. Bruce O. Barringer
Research Engineer II
Computer Technology and
Applications Division
Electronics and Computer
Systems Laboratory

BOB/jm

Approved by: John T. Scoville
Division Chief



Georgia Institute of Technology

ENGINEERING EXPERIMENT STATION

ATLANTA, GEORGIA 30332

April 7, 1981

Mr. John Skrobko
Scientific Atlanta
4311 Communications Drive
Norcross, Georgia 30093

Reference: Status Monitoring/Bridges Switching System Control
Microprocessor, Project A-2841-000

Dear John:

Subject: Letter Progress Report #3 for Reporting Period 3/12/81 to
4/11/81

The following items were accomplished during the period ranging from March 12, 1981 through April 11, 1981:

1. We obtained, configured, and checked out the microprocessor board, memory board, clock board, chassis, and terminal. All appears to be in working order.
2. Proceeded further with the firmware. The display processor, scan processor, and command processor portions are complete in their initial forms. The bridge read firmware is currently under development.
3. Held meetings with Scientific Atlanta to further pin down the command formats and the hardware interface protocol.

We intend to pursue the following areas of work during the next month:

1. Finish the software needed to meet your May trade show deadline.
2. Integrate this software into the hardware.
3. Perform system testing in conjunction with Scientific Atlanta personnel.

Successful performance of these goals is, of course, contingent on the successful parallel hardware effort being handled by Scientific Atlanta.

Mr. John Skrobko
April 7, 1981
Page Two

Until May 16, 1981, Richard Winkles will be handling the software and integration efforts. Project and budget questions, should they arise, should be routed to John Scoville. Both of these people can be reached at 894-3553.

The March, 1981 budget sheet shows that of the original budgeted \$19,810.00, \$6,169.42 has been spent. In March, 1981, \$3,806.77 was spent.

Sincerely, n

Mr. Bruce O. Bahringer
Research Engineer II
Computer Technology and
Applications Division
Electronics and Computer
Systems Laboratory

BOR/jm

cc: Mr. Larry Lawson
Scientific Atlanta

Approved by:

John T. Scoville, Chief
Computer Technology and
Applications Division



Georgia Institute of Technology

ENGINEERING EXPERIMENT STATION

ATLANTA, GEORGIA 30332

May 18, 1981

Mr. John Skrobko
Scientific Atlanta
4311 Communications Drive
Norcross, Georgia 30093

Reference: Status Monitoring/Bridges Switching System Control
Microprocessor
Project A-2841-000

Dear John:

Subject: Letter Progress Report #4 for Reporting Period 4/12/81
to 5/11/81

Within the period of April 12, 1981 to May 11, 1981, these items were accomplished:

1. Using the specified command formats, the software design phase was completed.
2. With the aid of a Scientific Atlanta-supplied "blackbox," testing was started on the system software. After extensive hardware debugging of the "blackbox" to get it to work, the software was tested and completed.
3. The computer system was transferred to Scientific Atlanta to allow tests to be done within a more normal operating environment.
4. Following this testing, several requests for changes to the system display were implemented.

During the next month, I intend to complete these objectives:

1. Add to the system software the ability to activate a limited number of bridges according to time. This will depend on access to a complete system with at least one bridge.

Mr. John Skrobko
May 18, 1981
Page Two

The April budget sheet shows that of the original budgeted \$19,810.00, \$10,501.74 has been spent. In April, \$4,332.32 was spent.

Sincerely, ^

Mr. Bruce O. Barringer^U
Research Engineer II
Computer Technology and
Applications Division
Electronics and Computer
Systems Laboratory

BOB/im

Approved:

John T. Scoville, Chief
Computer Technology and
Applications Division



Georgia Institute of Technology

ENGINEERING EXPERIMENT STATION

ATLANTA, GEORGIA 30332

June 17, 1981

Mr. John Skrobko
Scientific Atlanta
4311 Communications Drive
Norcross, Georgia 30093

Reference: Status Monitoring/Bridges Switching System Control
Microprocessor, Project A-2841-000

Dear John:

Subject: Letter Progress Report #5 for Reporting Period 5/12/81
to 6/11/81

Within the referenced period, the following items were accomplished:

1. Several software changes were implemented and debugging and checkout support was given in order to meet the late May trade show deadline.
2. The time initiated support software was designed.
3. Work began on documentation.

During the next month, we intend to complete the following objectives:

1. Code and checkout the time initialized software. This will require us to have access to the system and test equipment. The need to switch from 2716 to 2732 PROMs is likely.
2. Finish the documentation.

As we are currently in the last month of the current contract, you should be sure to ascertain that we have given you everything that you need.

Mr. John Skrobko
June 17, 1981
Page Two

The May budget sheet shows that of the original budgeted \$19,810.00, \$13,804.24 has been spent. In May, \$3,302.50 was spent.

Sincerely,

Mr. Bruce O. Barringer
Computer Technology and
Applications Division
Electronics and Computer
Systems Laboratory

BOB/jm

Approved by:

John T. Scoville, Chief
Computer Technology and
Applications Division



Georgia Institute of Technology
ENGINEERING EXPERIMENT STATION
ATLANTA, GEORGIA 30332

July 21, 1981

Mr. John Skrobko
Scientific Atlanta
4311 Communications Drive
Norcross, Georgia 30093

Reference: Status Monitor/Bridger Switching System Control
Microprocessor, GIT Project A-2841-000

Subject: Letter Progress Report #6 for Reporting Period of 6/12/81 to
7/11/81 - Final Report

Dear John:

This is the final progress report for this project. Within the referenced period, the following items were accomplished:

1. The time initialized software was coded and checked out.
2. Several minor finishing touches were made to complete the software.
3. Debugging assistance was provided.
4. Documentation was completed (writeups and flowcharts are attached).

The June budget sheet shows that of the original budgeted \$19,810.00, \$17,832.46 had been spent by the end of June. The rest of the budgeted money was spent in early July without overrun.

Mr. John Skrobko
July 21, 1981
Page Two

We appreciate being of service to you on this project and hope to work further with you in the future. Please let us know if there is anything else we can do for you.

Sincerely,

Mr. Bruce O. Barringer
Research Scientist II
Computer Technology and
Applications Division
Electronics and Computer
Systems Laboratory

BOB/jm

Approved by:

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John T. Scoville, Chief
Computer Technology and
Applications Division